

mentioned previously, rose again to slightly above flood stage in the upper portion at the end of the month. A complete report of these floods will be given later.

**Arkansas Basin.**—A flash flood occurred in the upper North Canadian River on August 9. A total loss of \$11,500 was reported.

**West Gulf of Mexico drainage.**—The following report has been submitted by the official in charge, New Orleans, La. regarding excessively heavy rains and floods in southwestern Louisiana on August 6 to 9:

The heaviest 4-day rainfall that has been recorded in the Southern States, as far as we are able to determine, occurred in connection with the tropical hurricane<sup>1</sup> that crossed the coast line with center just east of Sabine, Tex. on August 7. When the storm turned northward over extreme southeast Texas and slowed down in its forward movement from the 7th to the 9th the heaviest rainfall occurred more than 100 miles to the right of the path of the center. The rainfall was heaviest in the Crowley-Abbeville-Lafayette section in Louisiana with daily amounts as follows:

August—	Crowley <sup>2</sup>	Abbeville	Lafayette
6-7.....	4.32	4.30	1.62
7-8.....	9.36	8.80	4.06
8-9.....	19.76	17.50	19.63
9-10.....	.27	1.06	1.64
Total.....	33.71	31.66	26.95

<sup>1</sup> See pp. 217 for report on hurricane.

<sup>2</sup> Official record at Crowley not obtained because of flood conditions. Record is from Mr. F. E. Everett's gage, described as a good gage.

The 24-hour falls of 19.76 inches at Crowley and 19.63 inches at Lafayette on the 8-9th, have been exceeded in this State only by the record fall of 21.40 inches at Alexandria on June 15-16, 1886.

The water began to recede at Abbeville on the 9th after a stage of 14.32 feet, mean gulf level, was reached on the Vermillion River at the Southern Pacific railroad bridge. Crowley was largely evacuated; the water there began to fall slowly on the 10th, having reached a depth of 8 feet in some parts of the Crowley area. The flood drained slowly to the Gulf through the various streams.

**Colorado Basin.**—Flood stages were reached at Kelvin, Ariz., on the Gila River on August 14 and 15. A flash flood occurred in the vicinity of Tucson, Ariz., during the night of August 13, following a heavy local rainfall of 2.35 inches within 70 minutes. Losses from the latter flood have been estimated at \$125,000.

### FLOOD-STAGE REPORT

[All dates in August unless otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC SLOPE DRAINAGE					
James:	<i>Feet</i>			<i>Feet</i>	
Lynchburg, Va.....	18	16	16	18.4	16
Bremo Bluff, Va.....	19	15	19	33.5	17
Columbia, Va.....	10	15	21	35.4	17
State Farm, Va.....	12	16	20	25.6	17
Richmond, Va.....	8	16	20	23.3	18
Dan:					
Danville, Va.....	11	14	17	21.2	15
Clarksville, Va.....	13	15	19	27.0	17
Roanoke:					
Randolph, Va.....	21	15	20	41.6	16
Weldon, N. C.....	31	15	23	58.0	18
Williamston, N. C.....	10	18	Sept. 2	20.4	22
Fishing Creek: Enfield, N. C.....	14	15	20	17.9	18
Tar:					
Rocky Mount, N. C.....	8	14	20	13.2	18
Tarboro, N. C.....	18	16	25	30.5	20
Greenville, N. C.....	13	17	27	22.2	22

<sup>1</sup> Estimated.

### FLOOD-STAGE REPORT—Continued

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC SLOPE DRAINAGE—continued					
Little: Kenly, N. C.....	<i>Feet</i> 9			<i>Feet</i> 15.8	19
Neuse:					
Neuse, N. C.....	14	15	19	16.8	16
Smithfield, N. C.....	13	15	21	19.0	17
Goldsboro, N. C.....	14	16	24	19.2	22
Kinston, N. C.....	14	21	26	16.1	25
Cape Fear: Lock No. 2, Elizabethtown, N. C.....	20	16	20	26.0	18
Pee Dee:					
Cheraw, S. C.....	30	16	18	37.7	17
Mars Bluff Bridge, S. C.....	17	17	25	21.1	22
Poston, S. C.....	18	22	27	19.4	24-25
Saluda:					
Pelzer, S. C.....	6	13	17	14.0	14
Chappells, S. C.....	13	13	16	28.7	14
Catawba:					
Catawba, N. C.....	8	13	17	35.0	14
Catawba, S. C.....	11	14	17	24.3	16
Broad: Blairs, S. C.....	14	14	17	31.6	16
Congaree: Columbia, S. C.....	19	15	17	26.2	16
Wateree: Camden, S. C.....	23	16	18	30.5	16
Santee:					
Rimini, S. C.....	12	16	27	18.4	20
Ferguson, S. C.....	12	28	30	13.0	29
Broad: Carlton, Ga.....	15	12	( <sup>1</sup> ) 14	14.1	21-22
Savannah:					
Calhoun Falls, S. C.....	8	13	15	10.2	13
Augusta, Ga.....	32	13	16	40.9	14
Clyo, Ga.....	11	17	31	23.6	21
Ogeechee:					
Midville, Ga.....	6	13	20	9.9	14
Dover, Ga.....	7	17	28	12.2	19
Oconee: Milledgeville, Ga.....	20	13	15	23.4	14
Ochoopee: Reidsville, Ga.....	17	16	18	19.6	17
Altamaha: Charlotte, Ga.....	12	19	25	13.4	24
EAST GULF OF MEXICO DRAINAGE					
Chattahoochee: Norcross, Ga.....	16	15	15	18.1	15
Etowah: Cartersville, Ga.....	18	13	14	19.8	14
Pearl: Pearl River, La.....	12	( <sup>2</sup> )	9		
MISSISSIPPI SYSTEM					
Upper Mississippi Basin					
Rock: Moline, Ill.....	10	29	Sept. 1	10.3	31
Missouri Basin					
Grand: Chillicothe, Mo.....	18	14	14	18.6	14
Ohio Basin					
New:					
Ivanhoe, Va.....	15	13	15	32.1	14
Radford, Va.....	14	14	15	34.1	14
Glenlyn, Va.....	11	31	31	27.6	14
Hinton, W. Va.....	14	14	15	12.1	31
Kanawha: Kanawha Falls, W. Va.....	25	15	15	18.5	15
North Fork: Holston: Mendota, Va.....	8	14	15	31.7	15
Watuga: Elizabethton, Tenn.....	14	13	14	15.0	14
Holston: Rogersville, Tenn.....	13	14	16	20.9	14
Nolichucky: Embreeville, Tenn.....	8	30	30	17.7	15
		13	14	18.6	13
		30	30	11.2	30
		13	15	16.0	13
Big Pigeon: Newport, Tenn.....	6	30	31	17.3	30
French Broad:					
Asheville, N. C.....	6	13	16	12.5	13
		29	Sept. 2	13.2	30
		13	15	13.5	14
Marshall, N. C.....	10	29	31	23.0	30
		14	14	15.2	14
Hot Springs, N. C.....	13	29	31	22.3	30
		14	16	18.7	15
Dandridge, Tenn.....	12	30	( <sup>2</sup> ) 20.9	31	
		15	16	23.95	16
Tennessee: Knoxville, Tenn.....	20	31	31	20.4	31
Arkansas Basin					
North Canadian:					
Woodward, Okla.....	5	8	9	6.0	9
Canton, Okla.....	8	9	10	9.1	10
Yukon, Okla.....	8	10	17	11.7	11

<sup>1</sup> Continued into next month.

<sup>2</sup> Continued from previous month.